

DaimlerChrysler AG

Patent Claims

- 5 1. A hybrid component consisting of a metal body (2) and of a plastic body (3) injection-molded onto the latter, in particular for a motor vehicle, characterized
- 10 - in that the metal body is designed as a sheet metal body (2) which is produced by edging and/or stamping and/or plastic forming from a plate-shaped metal sheet provided with a surface coating (4) on at least one visible side and which has at least one uncoated processing or cut or stamped edge (5),
- 15 - in that the plastic body (3) is designed for stiffening the sheet metal body (2) and is injection-molded such that it seals the uncoated edges (5) of the sheet metal body (2).
- 20 2. The hybrid component as claimed in claim 1, characterized in that the sheet metal body (2) is produced from a coil-coated metal sheet.
- 25 3. The hybrid component as claimed in claim 1 or 2, characterized in that the plastic body (3) consists, in the region of the uncoated edges (5) of the sheet metal body (2), of a plastic (7') other than that in the remaining body.
- 30 4. The hybrid component as claimed in claim 3, characterized in that the plastic body (3) is designed as a single-component part or as a two-component part.
- 35 5. The hybrid component as claimed in one of claims 1 to 4, characterized in that the plastic body (3) completely covers one of the visible sides of the sheet metal body (2).

6. A method for the production of a hybrid component (1) consisting of a sheet metal body (2) and a plastic body (3),

- 5 - in which the sheet metal body (2) is produced by edging and/or stamping and/or plastic forming of a plate-shaped metal sheet provided with a surface coating (4) on at least one visible side, in such a way that uncoated cut or stamped edges (5) are generated on the sheet metal body (2),
- 10 - in which the plastic body (3) is injected-molded onto the sheet metal body (2) such that the plastic body (3) stiffens the sheet metal body (2) and seals the uncoated edges (5) of the latter.

15 7. The method as claimed in claim 6, characterized in that the sheet metal body (2) is produced from a coil-coated metal sheet.

8. The method as claimed in claim 6 or 7,
20 characterized in that the plastic body (3) is injection-molded onto the sheet metal body (2) by means of a two-component technology, the plastic body (3) consisting, in the region of the uncoated edges (5) of the sheet metal body (2), of a plastic (7') other than
25 that in the remaining body.

9. The method as claimed in claim 8, characterized in that the injection molding of the plastic body (3) by the two-component technology is carried out in a single
30 injection-molding die (8).

10. The method as claimed in one of claims 6 to 9, characterized in that the plastic body (3) is injection-molded onto the sheet metal body (2) such
35 that it completely covers one of the visible sides of the sheet metal body (2).